

TABLE 4r-Continued

	T ₁ , Blast	Air Supp hustion 40 Per Cent Excess	t for Com- of Gas 80 Per Cent Excess
The total average temperature change in brickwork of checker will be on	112.3°	160.7°	182.2°

The difference between the heat in the blast of the gases will be

$$\begin{aligned}
 &16,078,000 - 11,232,000 = 4,846,000 \\
 &= 30.4\% \text{ loss} \\
 &18,232,000 - 11,232,000 = 7,000,000 \\
 &= 38.8\% \text{ loss}
 \end{aligned}$$

This covers merely the interchange loss in stove checker. If the total heat released by the gases is considered, down to 0°, the following will govern:

Per second		1974
		19,520

Calories released by gases: Per
(2.26X44.80 -f-100) X1950= .

$$\begin{aligned}
 &2248 \quad \quad \quad 22\$ \\
 &\text{Per cycle: } 1974 \times 10,080 = \\
 &2248 \times 10,080 =
 \end{aligned}$$

$$\begin{aligned}
 &\dots\dots\dots \\
 &22,485,000
 \end{aligned}$$

$$\begin{aligned}
 &19,520,000 - &= 8,288,000 = 42.46\% \\
 &11,232,000 &\text{loss} \\
 &22,485,000 = &= 11,253,000 = 50.04\% \\
 &11,232,000 &\text{loss}
 \end{aligned}$$